| **** | x of Claims |
|------|-------------|
|      |             |

| Application/Co | ontrol No |
|----------------|-----------|
|----------------|-----------|

Applicant(s)/Patent under Reexamination

10/614,115

BARANOV ET AL.
Art Unit

Examiner

Art Ulli

Lisa V. Cook

1641

| 7 | Rejected |
|---|----------|
| 1 | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|           |          | _         |          |  |            |           | _        |          | -              |            |   |  |          |
|-----------|----------|-----------|----------|--|------------|-----------|----------|----------|----------------|------------|---|--|----------|
| Cla       | aim      | Ι. Ι      | ا ۽ ا    |  |            | Da        | te       |          |                |            | ] | CI   | aim,     |
| Final     | Original | 6/2/10:11 | dulm. W  |  |            |           |          |          |                |            |   | Final  | Original |
| -         | 1        | 2         | 17       | 7  | ✝          | Τ.        | 1        | ╁        | ╁              | T          | 1 |  | 51       |
|           | 2        | 'n        | tř       | $\top$   | Τ          | 1         | 1        | 1        | ١,             |            | 1 |  | 52       |
| · · · ·   | 3        | П         | 11       | 1  |            | 1         | 1        | Τ        | T              | 1          | 1 |  | 53       |
|           | 4        | П         | 17       | T  | T          | 1         | 1        | Т        | 1              | Γ          | 1 |  | 54       |
|           | 5        | П         | 11       | 丅  | ┰          | Т         |          | Т        | T              |            | 1 |  | 55       |
|           | 6        | П         | 11.      | Τ  | 1          |           | Τ        | Т        | Г              |            | 1 |  | 56       |
|           | 7        | П         | П        | П  |            |           |          | Τ        |                |            | ] |  | 57       |
|           | 8        | П         | П        | I  | Г          |           | Γ        |          | L              |            | ] |  | 58       |
|           | ø        | П         | П        |  | Ī          | L         |          |          | L              | Ľ          | ] |  | 59       |
|           | 10       |           | П        | L  | L          | $oxed{L}$ | L        | L        |                |            | ] |  | 60       |
|           | 11       | Ц         | Ш        | ┸  | 丄          | L         | L        | ┖        | 辶              | L          | 1 |  | 61       |
| L_        | 12       | Ц         | Ш        | ↓_   | 丄          | ┖         | <u> </u> | $\perp$  | Щ              | Щ          | 1 |  | 62       |
| L_        | 13       | Ц         | Ц        | <u> </u>   |            | Ļ         | ╙        | _        | <u> </u>       | L          | Į |  | 63       |
| L         | 14       | Ц         | Ц        | ╀  | ↓_         | ļ         | ↓_       | ↓_       | <u> </u>       | L_         | Į | <u> </u>   | 64       |
| L         | 15       | Ц         | Щ        | ↓_   | 1          | ┞-        | ┺        | ↓_       | <u> </u>       | _          | 1 | <u> </u>   | 65       |
|           | 16       | Н         | 11       | ↓_   | ļ.,        | Ļ.,       | ╄        | ╄        | ┡              | ļ          | l |  | 66       |
| 1         | 17       | Ц         | H        | <del> </del>                                     | ┼          | ↓         | <b>├</b> | ╄        | ┡              | ┡          | ł |  | 67       |
| <u> </u>  | 18       | <u> </u>  | H        | ╀-   | -          | ┞-        | ļ.,      | ↓_       | <del> </del> - | <b> </b> _ | ł | <u> </u>   | 68       |
| $\vdash$  | 19       | ┞-        | H        | ╄-   | ↓_         | ┡         | ▙        | ╄        | ┡              | ┡          | ł |  | 69       |
|           | 20       | -         | #        | ╀  | ╀          | ⊢         | ╀        | ⊢        | ⊢              | <b>!</b>   | ł | ┝  | 70       |
| -         | 21       | Н         | H        | ╀  | ╀          | ╄         | ╀        | ├        | ┝              | ├-         |   |  | 71<br>72 |
|           | 22       | Н         | ₩        | ╀  | ╀          | ├         | $\vdash$ | ┝        | ┝              | ┝          | ł | ⊢  | 73       |
| $\vdash$  | 23       | Н         | ₩        | ╁  | ╀╌         | ┢         | ╌        | ╁        | ┝              | ⊢          | ł | <u> </u>   | 74       |
| -         | 25       | ╌╂        | ₩        | ╁  | ╁          | ⊢         | ┝        | ╁        | ⊢              | ┝          | ł |  | 75       |
|           | 26       | Н         | ╫╴       | ╁╴   | ╁╴         | ┢         | ┝        | ┿        | ╁              | ⊢          | ł | <b></b>  | 76       |
| $\vdash$  | 27       | Н         | ₩        | +-   | +          | -         | ┢        | -        | ┝              | H          | ł |  | 77       |
|           | 28       | Н         | ╫        | ╁╌   | ╁╌         | ├-        | ┢        | ╁        | ╁              | ┝          | ł | ┢  | 78       |
| -         | 29       | H         | ᄬ        | 1  | $\vdash$   | H         | +-       | $\vdash$ | $\vdash$       | H          | 1 | ┝  | 79       |
| $\vdash$  | 30       | H         | Ň        | t  | ╁          | H         | -        | ┪        |                | ┝          |   | <b>-</b>   | 80       |
| $\vdash$  | 31       | H         | 7        | ✝  | 1          | ┢         | -        | T        | Н              | _          | ı |  | 81       |
| -         | 32       | H         | H        | ╈  | $\vdash$   | ┢         | 1        | ✝        | М              |            | 1 |  | 82       |
| $\vdash$  | 33       | ኵ         | #        | t  | <b>,</b> , | $\vdash$  | ┢        | 1        | $\vdash$       |            | 1 | <del>                                     </del> | 83       |
| · -       | 34       | H         | Ħ        | <del>                                     </del> | T          | Н         | 1        | T        | П              | _          | ١ | <u> </u>   | 84       |
| $\vdash$  | 35       | ⇈         | H        | Т  | Т          | Т         | T        | 1        |                |            |   |  | 85       |
|           | 36       | ta a      | N        | П  | Т          | Г         | Г        | Π        | 7              |            |   |  | 86       |
|           | 37       |           |          |  |            |           |          |          |                |            |   |  | 87       |
|           | 38       |           |          |  |            |           |          |          |                |            |   |  | 88       |
|           | 39       |           |          |  | Ŀ          |           |          |          |                |            |   |  | 89       |
|           | 40       |           |          |  | ľ          |           |          |          |                |            |   |  | 90       |
|           | 41       |           |          | L  |            | L         | L        |          | Ш              | _          |   |  | 91       |
|           | 42       |           |          | L  |            | Ŀ         | L        | L        | Ш              |            |   |  | 92       |
|           | 43       |           | L        | 1  |            | L         | _        | L        | Ш              |            |   | L  | 93       |
|           | 44       | _         | L        | <b>L</b>   | <b>L</b>   | L         | L        | _        | Ш              |            |   |  | 94       |
| $\square$ | 45       |           | L        | 1_   | L.         | $\vdash$  | <b>!</b> | Щ        | Щ              |            |   |  | 95       |
|           | 46       |           | L        | <u> </u>   | <u> </u>   |           | _        | _        | Ш              |            |   |  | 96       |
| $\sqcup$  | 47       |           | <u> </u> | ┞  | Ļ          | <u> </u>  | ⊢        | <b> </b> | Ш              |            |   |  | 97       |
| $\vdash$  | 48       |           | L        | ⊢  | L_         |           | <u> </u> | <u> </u> | Ш              | _          |   |  | 98       |
| $\vdash$  | 49       |           | <u> </u> |  | _          | <u> </u>  | <b>—</b> | $\vdash$ |                |            |   |  | 99       |
|           | 50       |           |          |  |            |           | L        | L        |                |            |   |  | 100      |

| Čli      | Claim,   |            |          | Date     |          |  |          |          |          |          |  |  |  |
|----------|----------|------------|----------|----------|----------|--|----------|----------|----------|----------|--|--|--|
|          | 1        |            |          |          | П        | Π  | Π        | Г        | П        |          |  |  |  |
| Final    | Original |            |          |          | l        | ł  | l        | İ        | l        |          |  |  |  |
| E        | пġ       | ١.         |          | ļ        | l        |  |          | l        | l        |          |  |  |  |
| -        | 0        |            |          |          |          | 1  |          |          | l        | !        |  |  |  |
| $\vdash$ | 51       |            | H        | -        | ╁        | 1  | ┢─       | -        | ╁        | 1        |  |  |  |
| <u> </u> | 52       | _          | -        | -        | -        | ╁  | ┢        | -        | ┢─       | ┢        |  |  |  |
| <u> </u> | 53       | _          | _        | ├-       | ╁        | ╁─╴  | ╁        | -        | ╁        | ╁        |  |  |  |
| <b>—</b> | 54       | _          | -        | ╌        | ⊢        | Н  | ⊢        | ╌        | ┞        | ╁        |  |  |  |
| -        | 55       |            | ┝        | ⊢        | ┢        | ├-   | ┢        | ⊢        | ⊢        | ⊢        |  |  |  |
|          | 56       | -          | -        | ╌        | Ͱ        | ┝  | ⊢        | ┝╌       | ├        | ╁        |  |  |  |
| <u> </u> | 50       | _          | -        | ╀        | ├        |  | ┝        | ├        | ┝        | -        |  |  |  |
| <b>-</b> | 57       | Н          | _        | ├-       | ┡        | ├-   | ├        | ┡        | ┡        | ⊬        |  |  |  |
|          | 58       | Ш          | _        | ┡        | ⊢        | 1  | ļ        | ╄        | ┡        | ₽        |  |  |  |
| <u> </u> | 59       |            | _        | ▙        | ļ.,      | <u> </u>   | <u> </u> | ⊢        | ┞        | ļ.       |  |  |  |
| <u> </u> | 60       |            | L        | <u> </u> | ↓_       | Ļ.,  | <u> </u> | ┡        | L        | <u> </u> |  |  |  |
|          | 61       | lacksquare | <u> </u> | Ц.       | <u> </u> | ┞-   | <u> </u> | ļ        | L        | <u> </u> |  |  |  |
|          | 62       | Ŀ          | _        | L        |          |  | L        | L_       | _        | <u>_</u> |  |  |  |
|          | 63       |            |          | L        |          |  | _        | _        | L        | <u></u>  |  |  |  |
|          | 64       |            |          |          |          |  | L        |          | L        | <u> </u> |  |  |  |
|          | 65       |            |          | $\Box$   |          |  | L        | L        |          | . (      |  |  |  |
|          | 66       |            |          |          |          |  |          |          |          |          |  |  |  |
|          | 67       |            |          | Г        | T .      | Г  | Г        |          |          |          |  |  |  |
|          | 68       |            |          | Г        |          | Г  |          |          | Г        |          |  |  |  |
|          | 69       |            |          | Г        | Г        |  |          | Π        | Г        | Г        |  |  |  |
| 1        | 70       |            |          |          |          |  |          | П        |          |          |  |  |  |
|          | 71       |            |          | Г        |          |  |          |          |          |          |  |  |  |
|          | 72       |            | _        |          | П        | T  | _        | 1        | Г        | Г        |  |  |  |
|          | 73       |            | _        |          |          | · · · ·  | _        | · ·      |          | Г        |  |  |  |
|          | 74       |            |          |          |          | Т  | $\vdash$ | ┢        | _        |          |  |  |  |
|          | 75       | _          |          | Г        | $\vdash$ | Ι.   |          | ┢        | _        |          |  |  |  |
|          | 76       | Н          |          | Ι-,      | -        | _  | $\vdash$ | 1        | _        | Н        |  |  |  |
|          | 77       |            |          | Н        | Т        | ┪  |          | ⇈        | Н        | Н        |  |  |  |
| $\vdash$ | 78       |            | -        | ┢        | -        | <del>                                     </del> | -        | $\vdash$ | $\vdash$ |          |  |  |  |
|          | 79       | $\dashv$   | _        | H        |          |  | $\vdash$ | ┢        | $\vdash$ | ┢─       |  |  |  |
| 1-       | 80       | $\dashv$   | -        | ⊢        | ⊢        | ┢  | ┢        | -        | -        | -        |  |  |  |
| $\vdash$ | 81       |            | -        | ┝        | ┝        | Н  | ⊢        |          | Н        | -        |  |  |  |
| $\vdash$ | 82       | -          |          | ┝        | $\vdash$ | H  |          | -        | ⊢        | $\vdash$ |  |  |  |
| -        | 83       | -          |          | ⊢        | ⊢        | $\vdash$   | ⊢        | -        | -        | ⊢        |  |  |  |
| $\vdash$ |          | -          | -        | ⊢        | -        | ⊢  | $\vdash$ | $\vdash$ | $\vdash$ | Н        |  |  |  |
| $\vdash$ | 84       | _          |          | <b>-</b> | $\vdash$ | $\vdash$   | <u> </u> | -        | ├-       | Н        |  |  |  |
| -        | 85<br>86 | $\dashv$   |          | -        | $\vdash$ | -  |          | -        | ├        | Н        |  |  |  |
| $\vdash$ |          |            | -        |          | ⊢        |  | <u> </u> |          | -        | $\vdash$ |  |  |  |
|          | 87       |            |          | <u> </u> | <u> </u> | -  | Ь.       | $\vdash$ | <u> </u> | <u> </u> |  |  |  |
|          | 88       | $\dashv$   |          | $\vdash$ | ⊢        | Щ  | ـــــا   | Ι.,      | <b> </b> | $\vdash$ |  |  |  |
| $\vdash$ | 89       | _          | _        | Щ.       | ⊢        |  | <u> </u> | <b> </b> | <u> </u> | $\vdash$ |  |  |  |
| $\vdash$ | 90       |            |          | -        | <u> </u> | H  | Ь,       |          | Щ        | Ь.,      |  |  |  |
|          | 91       | _          |          | <b> </b> | L.       | <u> </u>   |          | Ш        | ш        | Ш        |  |  |  |
| $\vdash$ | 92       | _          | _        | Щ        | <u> </u> | Щ  | _        | _        | $\vdash$ | Щ        |  |  |  |
| $\vdash$ | 93       | _          | _        | _        | بــا     | ΙЩ   | L        | Щ        | L        | Щ        |  |  |  |
|          | 94       | _          |          | Щ        | لـــا    | Щ  |          | Щ        | Щ        | Ш        |  |  |  |
|          | 95       | ᆜ          |          | Щ        | Ĺ        | Ш  |          | Щ        | Щ        | Ш        |  |  |  |
|          | 96       |            |          |          |          |  |          | لـــا    | Ш        |          |  |  |  |
|          | 97       |            |          |          |          |  |          |          |          |          |  |  |  |
|          | 98       |            |          |          |          |  |          |          |          |          |  |  |  |
|          | 99       |            |          |          |          |  |          |          |          |          |  |  |  |
|          | 100      | T          |          |          |          |  |          |          |          |          |  |  |  |

| Cl            | Claim      |          | Date   |              |          |          |                 |          |          |                 |  |  |
|---------------|------------|----------|--|--------------|----------|----------|-----------------|----------|----------|-----------------|--|--|
| Final         | Original   |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 101<br>102 |          |  |              |          |          | L,              |          |          |                 |  |  |
| $\vdash$      | 103        | -        | ┝  | ┢            | ┝        | ⊢        | ⊢               | ┝        | ┝        | Н               |  |  |
| -             | 104        | -        | ⊢  | <del> </del> | <u> </u> | +-       | -               | -        | ┝        | Н               |  |  |
| -             | 105        | $\vdash$ | <del>                                     </del> | ┪            |          | ┢        | ⊢               | ┢╼       | -        | $\vdash$        |  |  |
|               | 106        | Н        | ⊢  | $\vdash$     | -        | ┢        | $\vdash$        | ┝        | ┢╾       | Н               |  |  |
|               | 107        |          | Н  |              | Ι-       | $\vdash$ |                 | -        | _        | Н               |  |  |
|               | 108        |          |  | <u> </u>     |          | 1        |                 | _        |          | П               |  |  |
|               | 109        | _        |  |              |          | Г        | Г               |          | <u> </u> |                 |  |  |
|               | 110        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 111        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 112        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 113        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 114        | Ш        | L  | L            | oxdot    | oxdot    | Щ               | L        | <u> </u> | Ш               |  |  |
|               | 115        | _        | Щ  | $\vdash$     | _        | <u> </u> | L.              | _        | <u> </u> | Щ               |  |  |
|               | 116        |          | ļ.,  | Щ            | ļ        | <u> </u> | Ш               | <u> </u> | ļ.,      | Щ               |  |  |
| <b>—</b>      | 117        |          | <u> </u>   | Н            | _        | _        | ,               |          | ļ        | Н               |  |  |
|               | 118        | -        | <b>-</b>   | H            | <b>-</b> |          | <u> </u>        | <u> </u> | H        | Ы               |  |  |
| -             | 119<br>120 | ,        | Н  | <u> </u>     | $\vdash$ | _        | <u> </u>        | _        | $\vdash$ | Щ               |  |  |
| -             | 121        | -        | -  | -            | Н        | Н        | $\vdash$        | ۳        | ⊢        | Н               |  |  |
| $\vdash$      | 122        |          |  | -            |          | H        | $\vdash$        | $\vdash$ |          |                 |  |  |
| $\vdash$      | 123        | -        | H  | H            | -        |          | Н               | -        | H        | Н               |  |  |
| -             | 124        |          | H  | -            |          | Н        | Н               | _        | $\vdash$ | Н               |  |  |
|               | 125        |          | -  | _            |          |          | Н               | _        | $\vdash$ | Н               |  |  |
|               | 126        |          |  |              |          |          |                 |          |          | М               |  |  |
| $\overline{}$ | 127        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 128        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 129        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 130        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 131        |          |  |              |          |          |                 |          |          | Ш               |  |  |
|               | 132        |          |  | Щ            |          | Щ        |                 | L.,      | Ш        | Щ               |  |  |
| $\vdash$      | 133        |          |  |              |          | Н        | Н               |          | Щ        | Щ               |  |  |
|               | 134        | $\dashv$ | Щ  | Н            | Щ        | Н        | Щ               | _        | $\vdash$ | $\vdash \vdash$ |  |  |
| $\vdash$      | 135<br>136 | $\dashv$ | Н  | $\vdash$     |          | Н        |                 |          | Н        | $\vdash \vdash$ |  |  |
| H             | 137        | $\dashv$ | Н  | Н            | Н        | Н        | $\vdash$        | -        | Н        | $\vdash \vdash$ |  |  |
| $\vdash$      | 138        | $\dashv$ | -  |              | Н        | Н        | $\vdash \dashv$ | -        |          | $\vdash \vdash$ |  |  |
| $\vdash$      | 139        | $\dashv$ | -  | Н            | Н        | Н        | $\vdash$        | ⊣        | H        |                 |  |  |
| $\vdash$      | 140        | -1       |  | $\vdash$     |          | $\vdash$ | Н               |          | Н        | $\vdash$        |  |  |
|               | 141        | $\neg$   |  |              |          |          |                 |          |          | $\neg$          |  |  |
|               | 142        | 口        |  |              |          |          |                 |          |          |                 |  |  |
|               | 143        |          |  |              |          |          |                 |          |          |                 |  |  |
| 1             | 144        |          |  |              |          |          |                 |          |          |                 |  |  |
|               | 145        | $\Box$   |  |              |          |          |                 |          |          |                 |  |  |
|               | 146        | [        |  |              | $\Box$   | Ш        |                 |          |          |                 |  |  |
|               | 147        |          | _  | Ц            | $\Box$   | Щ        |                 |          |          | $\Box$          |  |  |
| $\vdash$      | 148        | _        | _  | _            | _        |          | Щ               | _        |          |                 |  |  |
|               | 149        |          | -  |              | _        | Щ        | _ ,             | 4        |          | _               |  |  |
| ш             | 150        |          | Ш  |              |          |          |                 |          |          |                 |  |  |
|               |            |          |  |              |          |          |                 |          |          |                 |  |  |